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PANASONIC AG-513F OPERATING INSTRUCTIONS MANUAL

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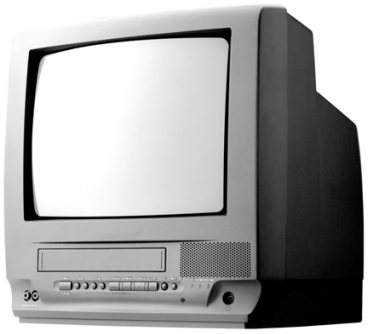


Panasonic®

Professional/Industrial Video Combination VCR Operating Instructions

VHS

Model No. AG-513F/AG-520F

• Initial Setup and Connection Procedures are on pages 8 and 9.

PRO LINE

As an ENERGY STAR® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

Please read these instructions carefully before attempting to connect, operate, or adjust this product. Please save this manual.

This operating instruction book is designed for use with models AG-513F and AG-520F. Illustrations in this manual show the AG-513F. Features may vary, so please read carefully.

LSQT0713B

Important Safeguards and Precautions

READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS. HEED ALL WARNINGS IN THE MANUAL AND ON UNIT

INSTALLATION

1 POWER SOURCE CAUTION
Operate only from power source indicated on unit or in this manual. If uncertain, have your Electric Utility Service Company or Video Products Dealer verify your home power source.

2 POWER CORD PLUG
For safety, this unit has a polarized type plug (one wide blade), or a three-wire grounding type plug. Always hold the plug firmly and make sure your hands are dry when plugging in or unplugging the AC power cord. Regularly remove dust, dirt, etc. on the plug.

POLARIZED PLUG CAUTION:
The plug fits into outlet one way. If it cannot be fully inserted, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not tamper with the plug.

GROUNDING PLUG CAUTION:
The plug requires a three-hole grounding outlet.
If necessary, have an electrician install the proper outlet. Do not tamper with the plug.

3 POWER CORD
To avoid unit malfunction, and to protect against electrical shock, fire or personal injury:
- Keep power cord away from heating appliances and walking traffic. Do not rest heavy objects on, or roll such objects over the power cord.
- Do not tamper with the cord in any way.
- An extension cord should have the same type plug (polarized or grounding) and must be securely connected.
- Overloaded wall outlets or extension cords are fire hazards.
- Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified electrician.

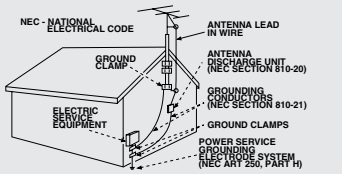
4 DO NOT BLOCK VENTILATION HOLES
Ventilation openings in the cabinet release heat generated during operation. If blocked, heat build-up may result in a fire hazard or heat damage to cassettes.
For your protection:
a. Never cover ventilation slots while unit is ON, or operate unit while placed on a bed, sofa, rug, or other soft surface.
b. Avoid built-in installation, such as a book case or rack, unless properly ventilated.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES
Do not place unit over or near a heater or radiator, in direct sunlight, etc. If unit is suddenly moved from a cold place to a warm place, moisture may condense in unit and on the tape causing damage.

6 TO AVOID PERSONAL INJURY
- Never place unit on support or stand that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- Move any appliance and cart combination with care. Quick stops, excessive force, and uneven surfaces may cause objects to overturn.
- Carefully follow all operating instructions.

OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION
An outside antenna or cable system must be properly grounded to provide some protection against built up static charges and voltage. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information regarding proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.


NEC - NATIONAL ELECTRICAL CODE
ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
ELECTRIC SERVICE EQUIPMENT
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS
Locate an outside antenna system well away from power lines and electric light or power circuits so it will never touch these power sources should it ever fall. When installing antenna, absolutely never touch power lines, circuits or other power sources as this could be fatal.

USING THE UNIT

Before unit is brought out of storage or moved to a new location, refer again to the INSTALLATION section of these safeguards.

1 KEEP UNIT WELL AWAY FROM WATER OR MOISTURE, such as vases, sinks, tubs, etc.

2 IF EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug unit and have it inspected by a qualified service technician before use.

3 ELECTRICAL STORMS
During a lightning storm, or before leaving unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

4 WHEN UNIT IS PLUGGED IN
- DO NOT OPERATE IF:
- liquid has spilled into unit.
- unit was dropped or otherwise damaged.
- unit emits smoke, malodors, or noises.

Immediately unplug unit, and have it inspected by a service technician to avoid potential fire and shock hazards.
- Never drop or push any object through openings in unit. Touching internal parts may cause electric shock or fire hazard.
- Keep magnetic objects, such as speakers, away from unit to avoid electrical interference.

5 USING ACCESSORIES
Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

6 CLEANING UNIT
Unplug unit. Use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into unit and cause electrical shock. Any substance, such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

SERVICE

1 DO NOT SERVICE PRODUCT YOURSELF
If, after carefully following detailed operating instructions, the unit does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug unit and contact a qualified service technician.

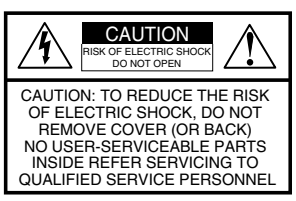
2 REPLACEMENT OF PARTS
Make sure the service technician uses only parts specified by the manufacturer, or have equal safety characteristics as original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

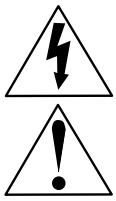
3 SAFETY CHECK AFTER SERVICING
After unit is serviced or repaired, request that a through safety check be done as described in the manufacturer's service literature to ensure video unit is in safe operating condition.

Safety Precautions/Mesures de sécurité

Warning : **To prevent fire or shock hazard, do not expose this equipment to rain or moisture.**
Avertissement : **Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.**
FCC WARNING : **Any unauthorized changes or modifications to this equipment would void the user's authority to operate.**

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the VHS mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used. This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.
This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

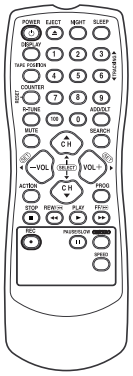
This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <http://www.eiae.org.>

Congratulations

On your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your unit.

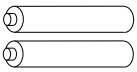
Date of Purchase
Dealer Purchased From
Dealer Address
Dealer Phone No.
Model No.
Serial No.

Accessories

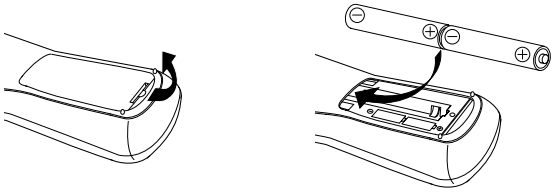


☐ Remote Control
LSSQ0390

☐ Batteries 2 "AA"



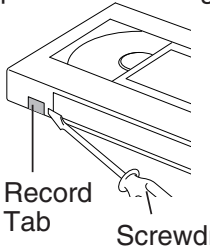
Loading the Batteries



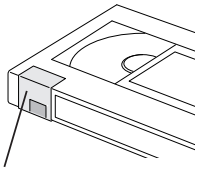
Battery replacement caution
- Do not mix old and new batteries.
- Do not mix alkaline with manganese batteries.

Prevent Accidental Tape Erasure

Break off the tab to prevent recording.



To record again.



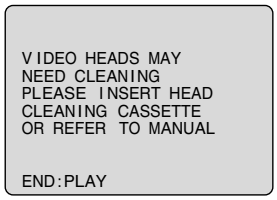
Cover the hole with cellophane tape.

Unit Information

Head Cleaning

Playing older or damaged tapes may eventually cause video heads to become clogged.

Head Clog Sensor
During playback this screen appears if clogging is detected. To clear message from screen, press PLAY on the remote or unit.



- **Use "dry" type head cleaning cassette only.** (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape directions carefully. Excessive use of head cleaning tape can shorten the video head life.

Features for a Quality Picture

Digital Auto Tracking
Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control (to reduce picture noise)
Use during Playback and Slow Motion mode to reduce picture noise. Press the 3 or 6 number key on the remote control or CH ▲▼ on the unit until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.

V-Lock Control

In Still mode, the 3 or 6 number key on the remote control or CH ▲▼ on the unit operate as a V-lock control to reduce jitter.

Record/Playback Time

Only use tapes with the VHS mark in this unit.

Tape Speed Setting	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

Specifications

Display		
Picture Tube		13 inch (AG-513F)/ 20 inch (AG-520F) measured diagonal 90° deflection Picture Tube
VCR		
Video Recording System		4 rotary heads helical scanning system
Audio Track		1 track
Tuner		
Broadcast Channels		VHF 2 ~ 13, UHF 14 ~ 69
CABLE Channels		Midband A through I (14 ~ 22) Superband J through W (23 ~ 36) Hyperband AA ~ EEE (37 ~ 64) Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A(01) Ultraband 65 ~ 94, 100 ~ 125
General		
Power Source		120 V AC, 60 Hz
Power Consumption	Power On	Approx. 69 W (AG-513F) Approx. 110 W (AG-520F)
	Power Off	Approx. 2.5 W
Television System		EIA Standard NTSC color
Speaker		1 pieces
Operating Temperature		5 °C ~ 40 °C (41 °F ~ 104 °F)
Operating Humidity		10 % ~ 75 %
Weight		12 Kg (26.4 lbs.) (AG-513F) 23 Kg (50.7 lbs.) (AG-520F)
Dimensions (W X H X D)		386 mm (15-3/16″) X 385 mm (15-3/16″) X 374 mm (14-3/4″) (AG-513F) 515 mm (20-5/16″) X 505 mm (19-7/8″) X 474 mm (18-11/16″) (AG-520F)

Note

- Designs and specifications are subject to change without notice.

DST (Daylight Saving Time)

Unit auto adjusts clock for DST (Daylight Saving Time.)

■ **Spring (First Sunday in April)**
DST: ON → Sets clock ahead one hour.

■ **Autumn (Last Sunday in October)**
DST: ON → Turns clock back one hour.

- If your area does not observe Daylight Saving Time, select DST: OFF.
- Keep these time changes in mind when programming the unit for timer recordings.

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Location of Controls

Remote Control Buttons

EJECT
Ejects tape.

POWER
Turns unit on or off.

DISPLAY
Displays the VCR status and clock.

TAPE POSITION
Finds out present tape position and amount of tape remaining.

COUNTER RESET
Resets to “0:00:00” at the desired position.

RAPID TUNE
Displays the last channel you were watching.

MUTE
Mutes the sound instantly.

CHANNEL UP/DOWN
Selects a channel.

SELECT UP/DOWN
Controls navigation around on-screen menu.

ACTION
Displays Main Menu.

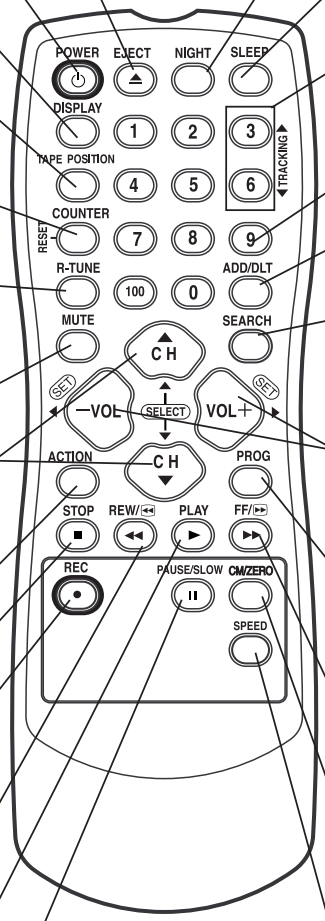
STOP
Stops recording or playback.

REC
Records the program.

REWIND/SEARCH
Rewinds tape, and searches reverse scene.

PLAY
Begins playback.

PAUSE/SLOW
Pauses and slow motion and frame advance picture.



NIGHT
Color and picture intensity level are adjusted during night time use.

SLEEP
Turns off the unit automatically.

TRACKING UP/DOWN
Reduces picture noise during Playback and Slow Motion.

NUMBER Keys
Selects a channel directly.

ADD/DELETE
Adds or deletes a channel.

SEARCH
Goes directly to the desired recording. Locates end point of recording.

VOLUME UP/DOWN
Adjusts volume.

SET/BACK SPACE
Sets a selected menu, or goes back to correct.

PROGRAM
Displays SET PROGRAM screen. You can set Timer Program and On-Timer.

FAST FORWARD/SEARCH
Fast forwards tape, and searches forward scene.

CM SKIP/ZERO SEARCH
In Stop mode, goes to the counter “0:00:00.“ In Play mode, skips over 1 to 3 minutes of tape.

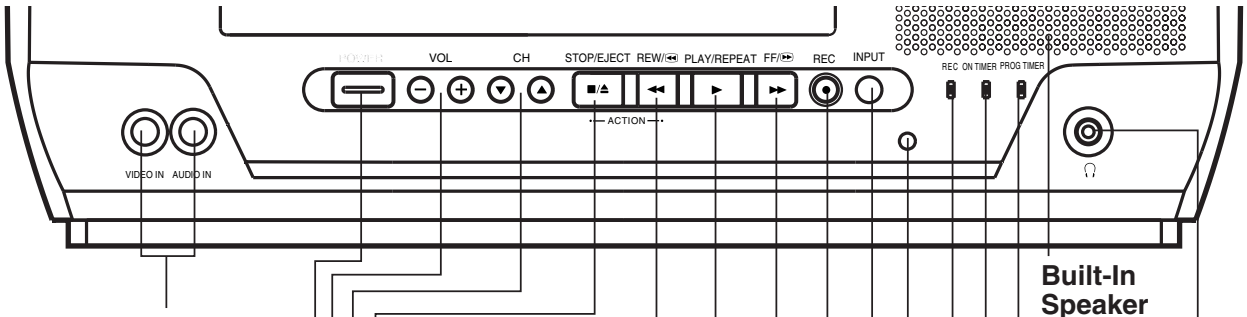
SPEED
Selects recording speed.

Note

- When EJECT is pressed, the tape is ejected from Cassette Compartment.
  If EJECT is pressed during recording, the unit will not respond to the command.

Front View of the Unit and Indicators

<Model AG-513F unit shown>



AUDIO VIDEO IN Jack
For dubbing.

POWER
Turns unit on or off.

VOLUME UP/DOWN
Adjusts volume.

SET/BACK SPACE
Sets a selected menu, or goes back to correct.

CHANNEL UP/DOWN
Selects a channel.

TRACKING UP/DOWN
Reduces picture noise during Playback and Slow Motion.

SELECT UP/DOWN
Controls navigation around on-screen menu.

STOP
Stops recording or playback.

EJECT
Ejects tape.

ACTION
Press together with REW.

REWIND/SEARCH
Rewinds tape, and searches reverse scene.

ACTION
Press together with STOP.

PLAY
Begins playback.

REPEAT
Repeats a recording.

FAST FORWARD/SEARCH
Fast forwards tape, and searches forward scene.

REC
Records the program.

INPUT
Selects a LINE mode directly.

Built-In Speaker

PHONES Jack
Connect an earphone or headphones.

PROG TIMER Indicator
Lights when the unit is set for Timer Recording.

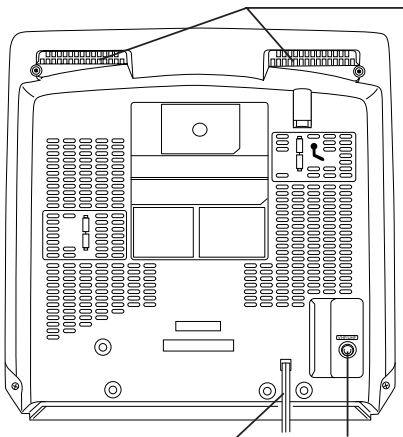
ON TIMER Indicator
Lights when the On-Timer is set.

REC Indicator
Lights during recording.

Remote Sensor

Rear View of the Unit

<Model AG-513F unit shown>



Easy Grip-Handle
<Model AG-513F only>
Use when transporting the unit.

AC Power Plug
When plugged into an AC outlet, the unit consumes 2.5 W of electric power in OFF condition.

VHF/UHF Antenna Input Terminal
In from your Antenna or Cable (See page 8).

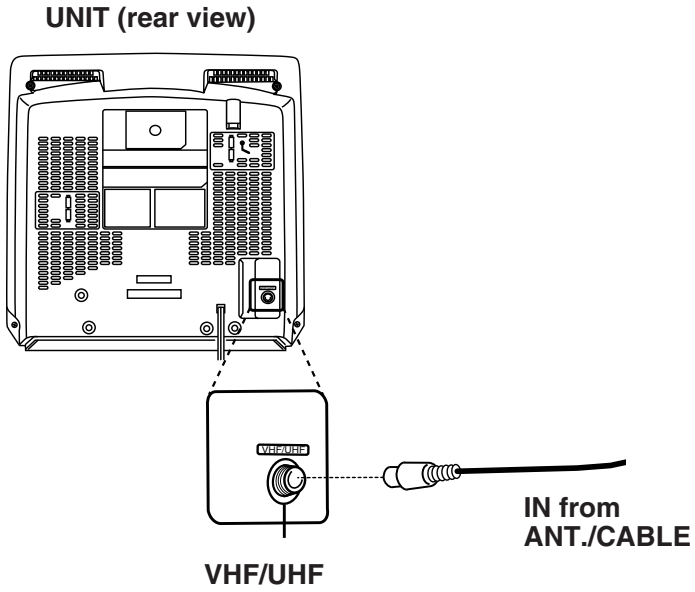
Connections

Please make all cable or antenna connections before power on.

Connecting

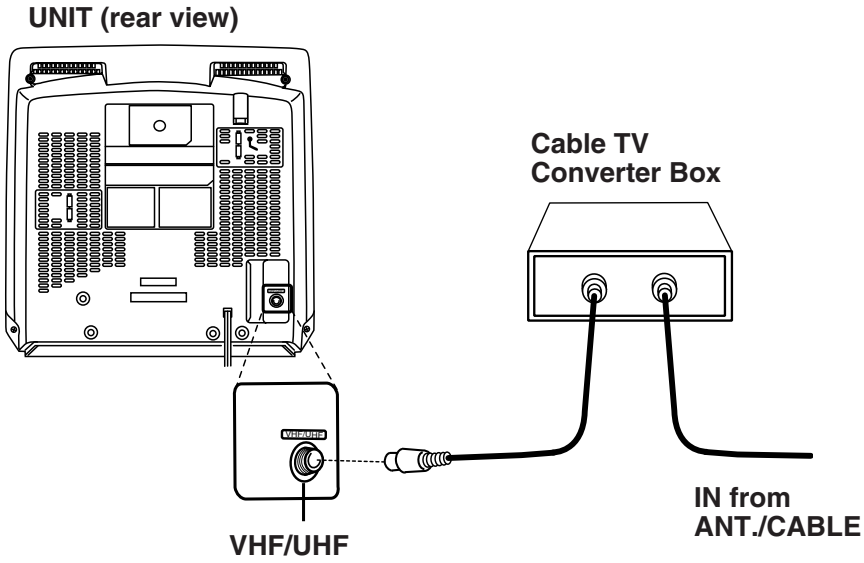
For ANT./Cable

Connect the cable from Antenna/Cable to the VHF/UHF terminal on the unit.



For DSS/Cable Box

Connect the OUT jack on your cable box to the VHF/UHF terminal on the unit with a RF cable.



WARNING:
Overtightening “Nut type” RF coaxial cables may damage jacks. Finger tighten only.

Initial Setup

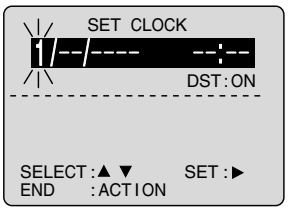
Set the Clock (Initial Power On)

Your unit can be set to Tuner ON or Tuner OFF. When the unit is first turned on, the tuner is set to off and a prompt to set the clock is displayed. By selecting “TUNER:ON” (see at right), you can place channels in memory and use the Auto Clock Set feature (see page 12).

1 Plug the unit power cord into AC wall outlet.

2 **Press POWER** on the remote or unit.

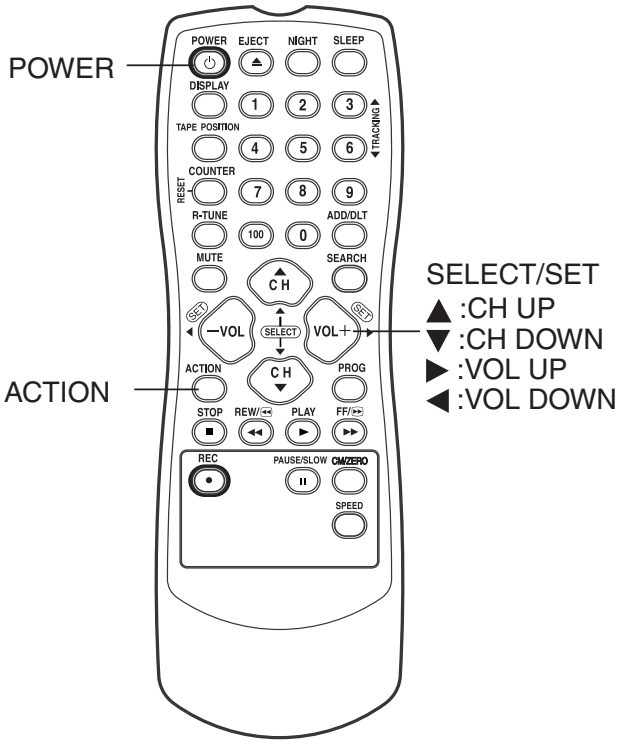
3



Press ▲ ▼ to select the month and **press ▶** to set. In the same manner, select and set the date, year, time, and DST. (Daylight Saving Time)

To Make Corrections,
repeatedly **press ◀ ▶** to move to error, then correct.

4 **Press ACTION** to end setup. (Clock starts.)

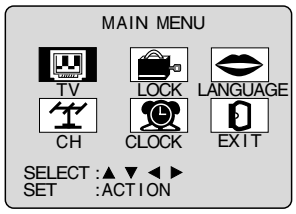


Tuner ON/OFF

When Tuner OFF is selected, your unit is automatically in LINE mode. When Tuner ON is selected, Channel selection, Input selection, Channel Add/Delete, etc. is available.

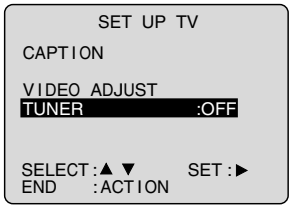
1 **Press ACTION** to display MAIN MENU.

2



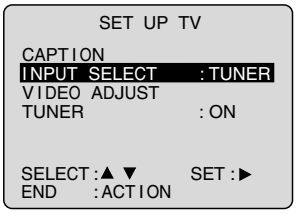
1) **Press ▲▼◀▶** to select “TV.”
2) **Press ACTION** to display SET UP TV screen.

3



1) **Press ▲▼** to select TUNER.
2) **Press ▶** to set “ON” or “OFF.”

4 **<Only when TUNER:ON>**

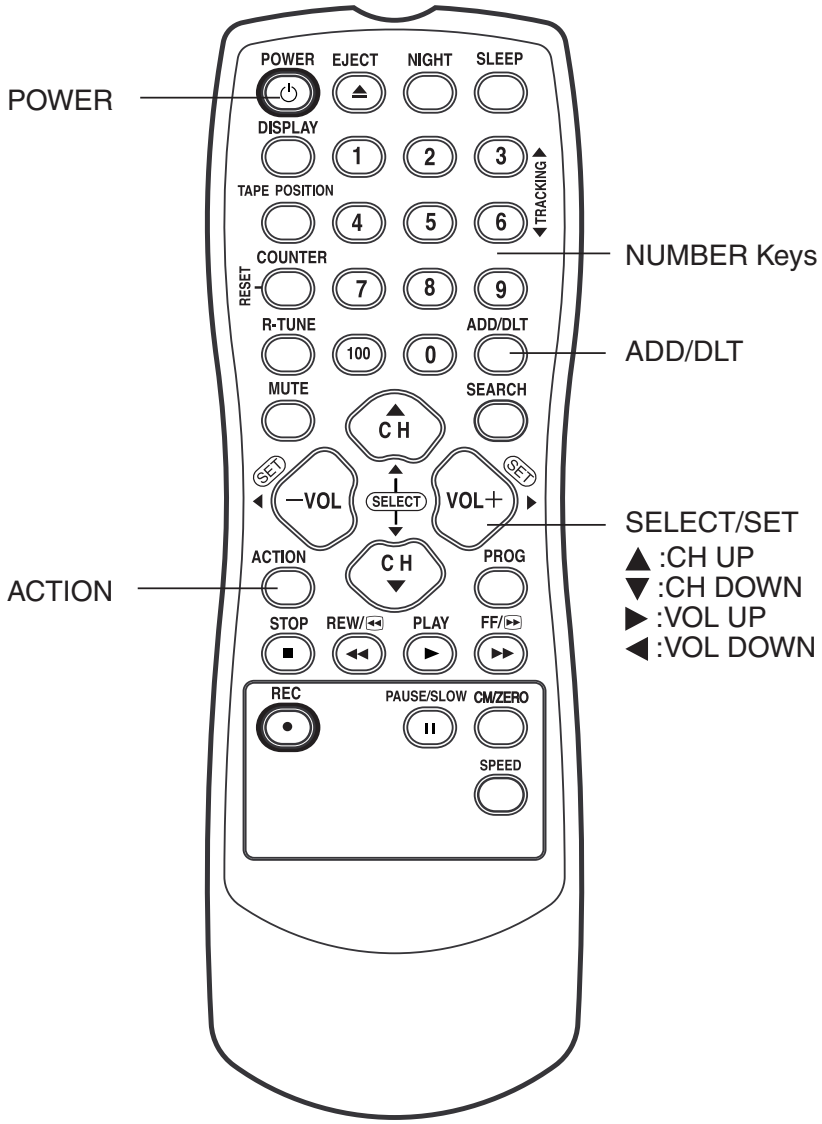


1) **Press ▲▼** to select INPUT SELECT.
2) **Press ▶** to set “TUNER.”

5 **Press ACTION** twice to return to the normal screen.

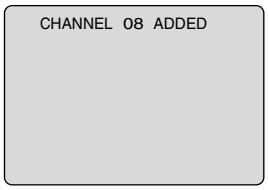
- If you selected “TUNER:ON”, go to “Channels” selection on page 12.

Initial Setup (continued)

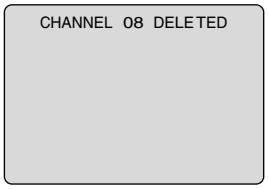


Add or Delete a Channel

To add channel:
Select channel with **number keys** and **press ADD/DLT**.

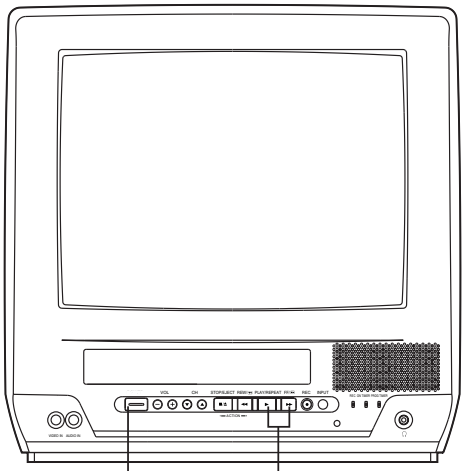


To delete channel:
Select channel with **CH ▲▼** or **number keys** and **press ADD/DLT**.



Reset all unit Memory Functions

When moving unit to a new location, or if a mistake was made in the Initial Setup section.
• Make sure a tape is not inserted in the unit.



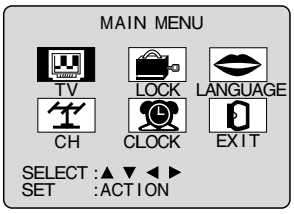
1 Turn the unit Power on.

2 Press and hold both **PLAY/REPEAT** and **FF** on the unit for more than 5 seconds.
- The power will shut off.
- Please ignore “NO CASSETTE” warning.

3 Do “Initial Setup” on page 8.

Note to CABLE System Installer
This reminder is provided to call the CABLE (Cable TV) System Installers attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Reset Language, Channels, Clock,

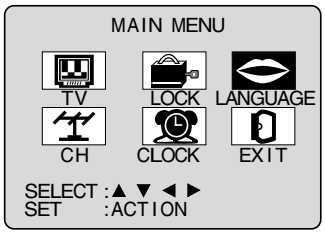
1 

Press ACTION to display MAIN MENU.

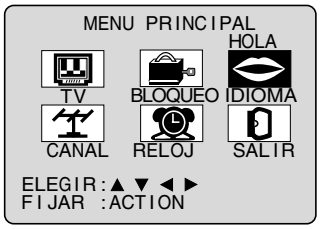
2

■ Language

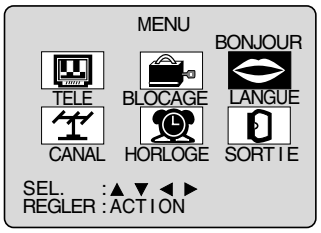
1) **Press ▲▼◄►** to select language icon.



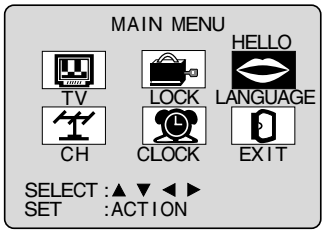
2) **Press ACTION** repeatedly.



For Spanish



For French

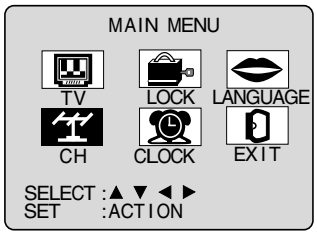


For English

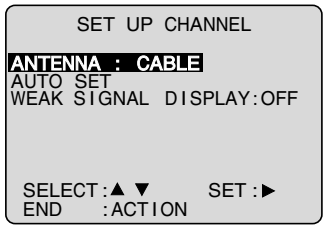
3) **Press ▲▼◄►** to select "EXIT." **Press ACTION** to exit.

■ Channels (TUNER: ON only)

1) **Press ▲▼◄►** to select "CH."



2) **Press ACTION.**



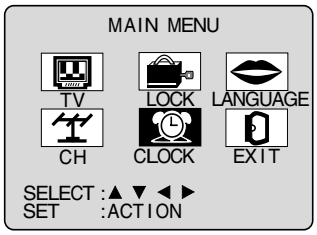
3) **Press ▲▼** to select "ANTENNA," then **press ►** to set your antenna system ("TV" or "CABLE").

4) **Press ▲▼** to select "AUTO SET," then **press ►**.

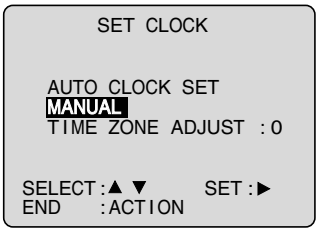
- After Channel Auto Set is finished, Clock Auto Set will be performed. (If clock is set manually, Clock Auto Set will not be performed.)

■ Clock

1) **Press ▲▼◄►** to select "CLOCK."



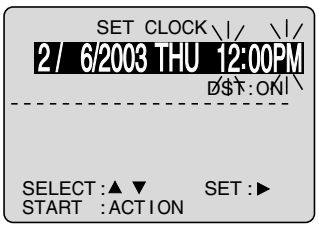
2) **Press ACTION**.



("TIME ZONE ADJUST" appears only when auto clock is set.)

3) **Press ▲▼** to select "MANUAL" or "AUTO CLOCK SET" and **press ►**.

- **For Auto Clock Set, select "AUTO CLOCK SET," then press ►.**



4) **Press ▲▼** and **press ◄►** to select and set the month, date, year, time, and DST (Daylight Saving Time).

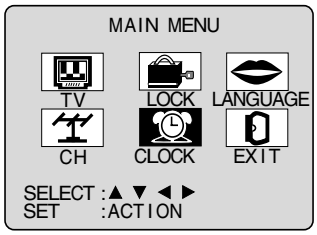
5) **Press ACTION** twice to start the clock and exit this mode.

Time Zone Adjust

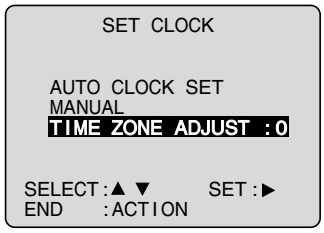
Time Zone Adjust (TUNER: ON only)

(Only when Auto Clock is set.)

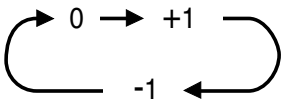
1) **Press ▲▼◀▶** to select "CLOCK."

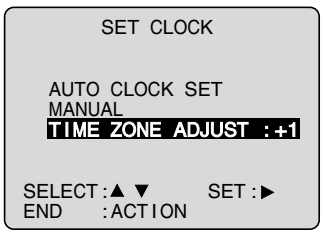


2) **Press ACTION**.

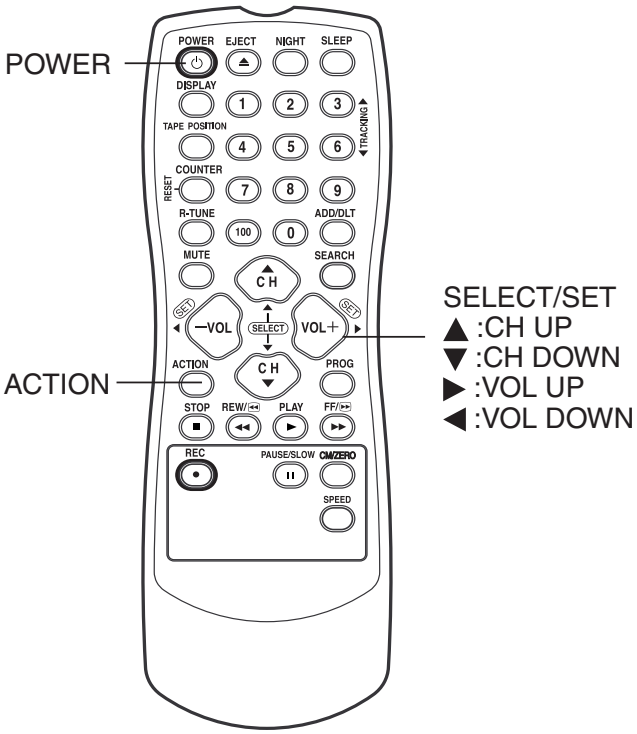


3) **Press ▲▼** to select TIME ZONE ADJUST and **press ▶** repeatedly to select mode. (See below.)

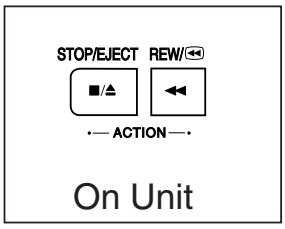




4) **Press ACTION** twice to exit.

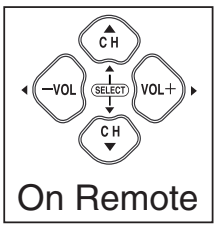


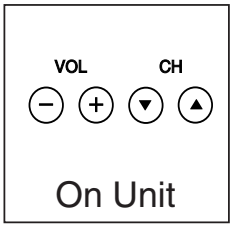
ACTION key on the unit



You can operate the menu screen using unit buttons. To display the menu, press STOP/EJECT and REW together with no tape inserted. To exit the menu, repeat above with or without tape inserted until normal screen appears.

Using ▲▼◀▶ keys





▲ : CH UP
▼ : CH DOWN
▶ : VOLUME UP
◀ : VOLUME DOWN

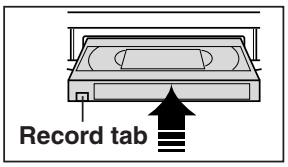
Whenever the menu or program screen is displayed, CHANNEL UP/DOWN function as ▲▼ and VOLUME UP/DOWN function as ◀▶ only.

Playback a Tape

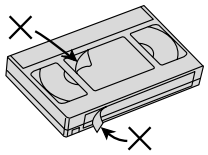
Check List

☐ Cable or antenna is connected.
☐ Power cord is plugged in.

1 Insert a cassette.
- The unit power comes on automatically.



To prevent tape jam,
remove loose or peeling labels from tapes.



2 **Press PLAY.**
- Playback begins if cassette has no record tab.

■ **Forward/Reverse scene search**
→ **Press FF** or **REW**
→ **Press PLAY** to release.

■ **Still (Freeze) picture**
→ **Press PAUSE/SLOW**
→ **Press PLAY** to release.

■ **Slow Motion picture**
→ **Hold down PAUSE/SLOW** in Still mode
→ **Press PLAY** to release.

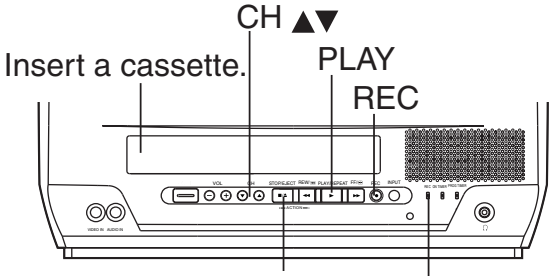
■ **Frame by Frame picture**
→ **Press PAUSE/SLOW** in Still mode
→ **Press PLAY** to release.

Notes

- These features work best in SP or SLP mode.
- After the unit is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

■ **Stop → Press STOP**
■ **Rewind tape → Press REW** in Stop mode
■ **Fast forward tape → Press FF** in Stop mode
■ **Eject tape → Press EJECT** on the remote or STOP/EJECT on the unit

You can operate using the buttons on the unit



■ Press to stop and/or eject tape.

REC Indicator

Record On a Tape

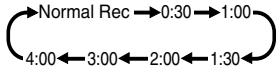
1 Insert a cassette with record tab
- The unit power comes on automatically.

2 **Press CH ▲▼** or number keys to select a channel.
- For “LINE” input, see bottom of next page.

3 **Press SPEED** to select recording speed (see page 4).
SP = Standard Play
LP = Long Play
SLP = Super Long Play
- Selected speed is displayed.

4 **Press REC** to start recording.
- To edit out unwanted portions, press PAUSE/SLOW to pause and resume recording.
- You cannot view another channel during recording.

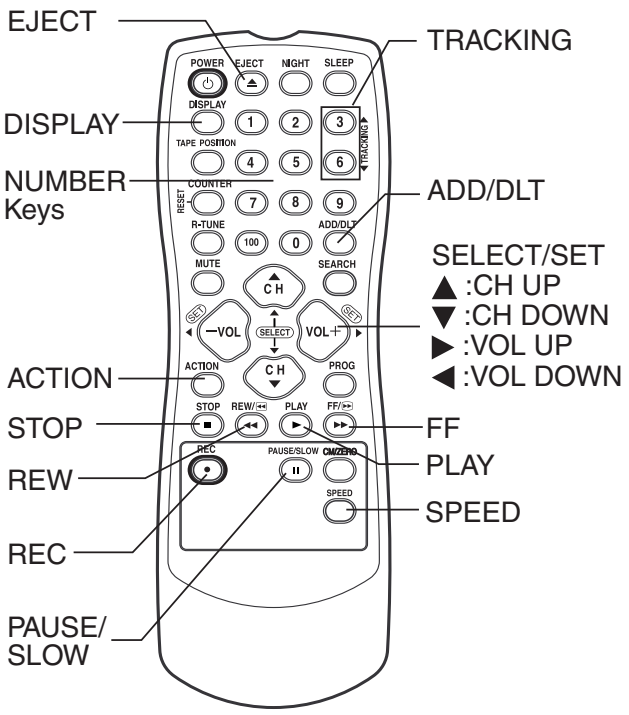
■ **Stop → Press STOP**
■ **One Touch Recording (OTR)**
Press REC repeatedly to set the recording length (30 min. - 4 hours).



- The unit stops recording at a preset time.
- PROG TIMER indicator lights on the unit.

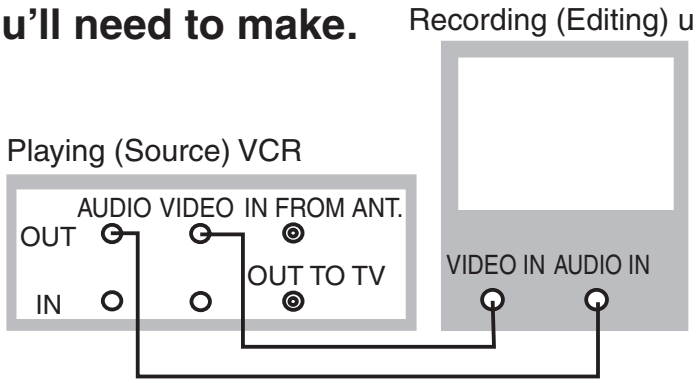
Notes

- After the unit has been in Rec Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head.
- The remaining recording time of an OTR can be displayed by pressing DISPLAY.

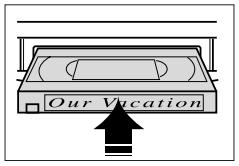


Copy Your Tapes (Dubbing)

Connections you'll need to make.

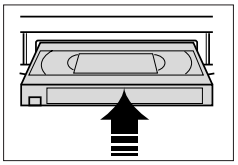


Playback (Source)

1 

Insert pre-recorded tape.

Recording (Editing) unit



Insert blank tape with record tab.

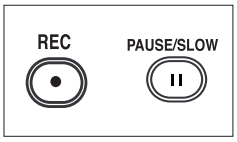
- Dubbing tapes protected with Copy Guard will have poor quality results.

2 _____

Select "LINE" mode.
See "Selecting Input Mode" below.

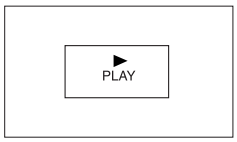
3

Press PLAY then **PAUSE** at starting point to put in Standby mode.



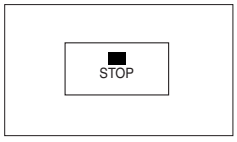
Press REC, then **PAUSE/SLOW** immediately to put in Standby mode.

(Perform operation of steps 4 and 5 on both units at same time.)

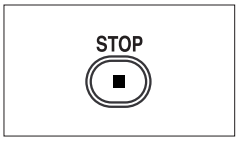
4 

Press PLAY to start dubbing.

Press PAUSE/SLOW to start dubbing.

5 

Press STOP to stop dubbing.

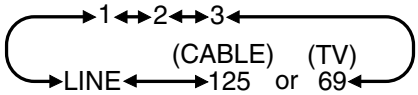


Press STOP to stop dubbing.

Selecting Input Mode (TUNER:ON only)

Method 1:
Press INPUT on the unit.
Channel Number ↔ LINE

Method 2:
Press CH ▲▼. The display will change as follows.



Method 3:
a Press ACTION for MAIN MENU.
b Press ▲▼◀▶ to select "TV," then **press ACTION** for SET UP TV screen.
c Press ▲▼ to select "INPUT SELECT," and then press ▶ to select "TUNER" or "LINE."
d Press ACTION twice to exit this mode.

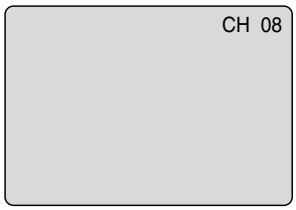
Caution

- Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

TV Operation

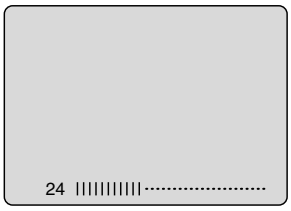
1 **Press POWER** on the remote or unit.

2



Use CH ▲▼ or number keys to select a channel.

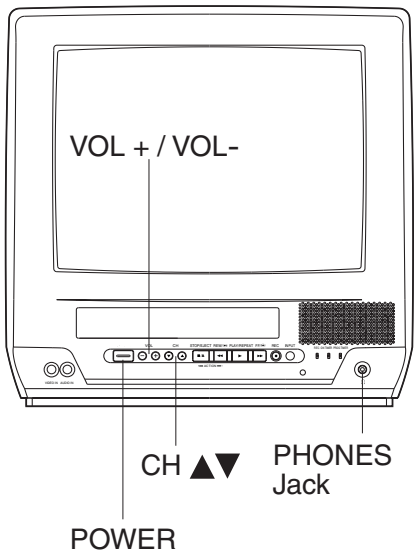
3



Press VOL + or VOL - to adjust volume.

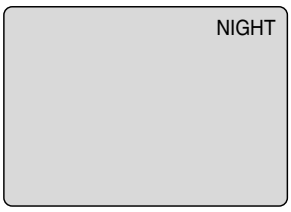
Check List

☐ Cable or antenna is connected.
☐ Power cord is plugged in.



NIGHT Mode

Color and picture intensity levels are adjusted so the screen is easier on your eyes during night time use.



Press NIGHT to set NIGHT mode.
- NIGHT mode may be selected when watching TV or playing a tape.

Press NIGHT to cancel.
- Previous settings are restored.
- NIGHT mode is canceled when power is turned off or power failure occurs.

■ Using the 100 key

When selecting CABLE channels 100 to 125 with the number keys, first press the 100 key, and then enter the remaining two digits.

■ Rapid Tune

Press R-TUNE to display the last channel you were watching.

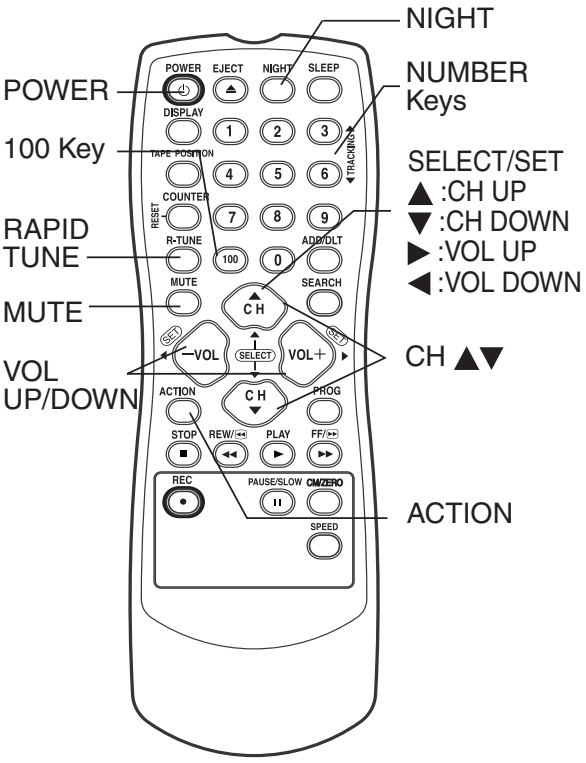
■ Audio Mute

Press MUTE to instantly mute the sound. Press again to restore the previous sound level.

■ Phones

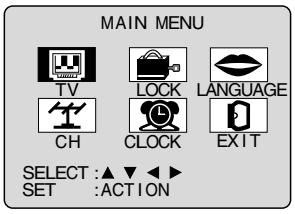
Connect an earphone (not supplied) or headphones (not supplied) to the Phones Jack.

Picture Adjustment



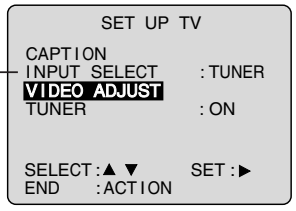
1 **Press ACTION** to display MAIN MENU.

2



1) **Press ▲▼◀▶** to select "TV."
2) **Press ACTION** to display SET UP TV screen.

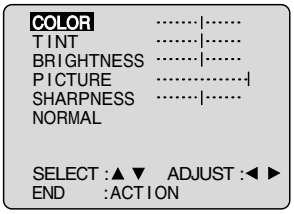
3



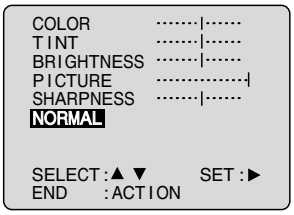
1) **Press ▲▼** to select VIDEO ADJUST.
2) **Press ▶** to display screen.

<Only when TUNER:ON>

4



1) **Press ▲▼** to select an adjustment item. (See below left.)
2) **Press ◀▶** to adjust.



To Reset Picture Controls,
press ▲▼ and **▶** to select and set "NORMAL."
All controls return to their factory settings.

5 **Press ACTION** three times to exit.

Picture Adjustment

- **COLOR Control**
  Adjust color intensity.
- **TINT Control**
  Adjust for natural flesh tones.
- **BRIGHTNESS Control**
  Adjust picture brightness.
- **PICTURE Control**
  Adjust picture intensity by adjusting both contrast and color level in the proper balance.
- **SHARPNESS Control**
  Adjust picture sharpness.

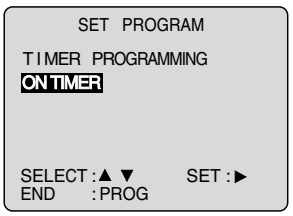
TV Timer Features

ON-TIMER with Alarm

This unit can be set to automatically power on in one of 2 modes (TV or Playback). Even if you set the On Timer, it will not be performed during Play Lock mode. You can also combine the On-Timer with a one minute alarm that gradually increases in volume.

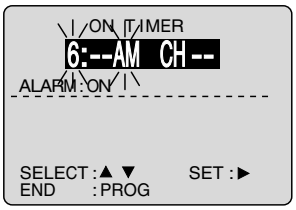
1 **Press PROG** to display SET PROGRAM screen.

2



1) **Press ▲▼** to select "ON TIMER."
2) **Press ▶** to display ON TIMER screen.

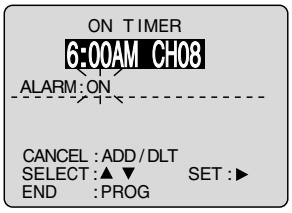
3



1) **Press ▲▼** to select desired settings.
2) **Press ▶** to set the ON-TIMER TIME or ON-TIMER mode.

- You can choose TV or PLAY for the On Timer mode. (If TUNER:OFF, you can only select PLAY.)
- Make sure a tape is inserted if Playback mode is selected.

4



Press ▲▼ to select ALARM "ON" or "OFF."

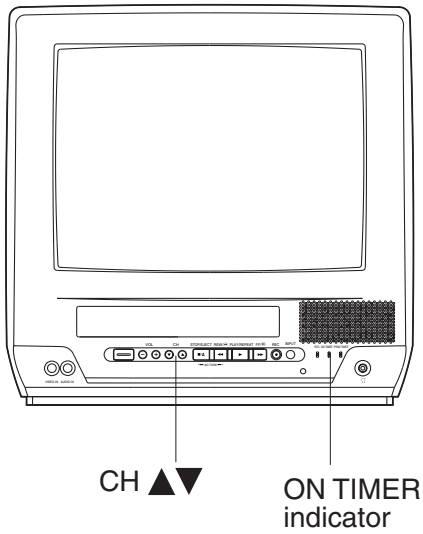
When "ON" is selected, an alarm will gradually increase in volume for one minute or until canceled by pressing any button (including VOL + -).
To Make Corrections, use ▲▼ and ◀▶ to move back and correct.

5 **Press PROG** to set ON TIMER.
- "ON TIMER SET" is displayed.
- ON TIMER Indicator lights on the unit.

To Cancel ON-TIMER,
Repeat steps **1** and **2**. Then, **press ADD/DLT** to clear the time in step **3**. Now, **press PROG** to end.
"ON TIMER END" briefly appears on-screen.

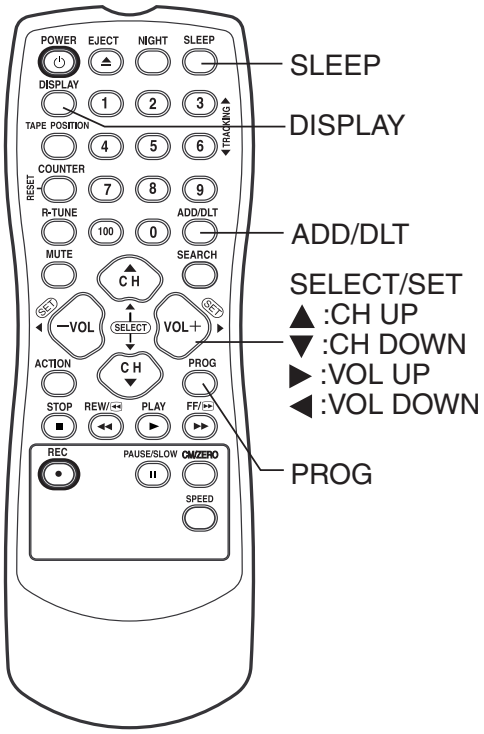
Check List

☐ The clock is set to the correct time.



Note

- If no button on the remote or unit (including a button used to turn off the alarm) is pressed within 60 minutes after unit turns itself on, it will turn itself back off.



Sleep Timer

This unit can be set for auto power off.

Press SLEEP repeatedly
to set SLEEP TIMER.

- **Pressing DISPLAY** with sleep timer set displays remaining time.
- Sleep Timer will not be performed during Play Lock mode.

SLEEP TIMER 30
↓
SLEEP TIMER 60
↓
SLEEP TIMER 90
↓
SLEEP TIMER 00

Press SLEEP repeatedly until “SLEEP TIMER 00” appears to cancel.

Closed Caption System

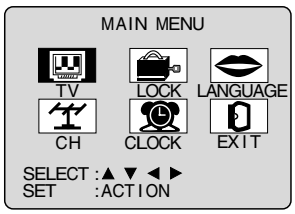
Closed Caption is ...

This multi-use system not only allows the hearing impaired to enjoy selected programs, but also makes useful information from TV stations available to everyone.

Closed Caption Mode Feature

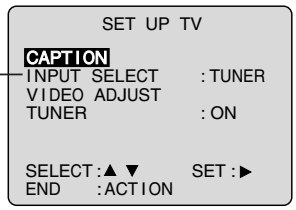
1 **Press ACTION** to display MAIN MENU.

2



1) **Press ▲▼◄►** to select "TV."
2) **Press ACTION** to display SET UP TV screen.

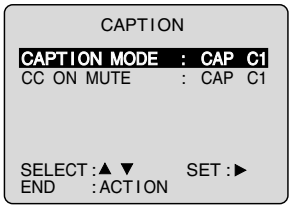
3



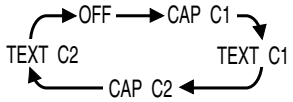
1) **Press ▲▼** to select "CAPTION."
2) **Press ►** to display CAPTION screen.

► **<Only when TUNER:ON>**

4



1) **Press ▲▼** to select CAPTION MODE.
2) **Press ►** repeatedly to select mode. (See left.)



5 **Press ACTION** three times to return to the normal screen.

Closed Caption Mode Selections

Caption Mode: CAP C1 or C2
A narration of selected TV programs is displayed. Check TV program listings for CC (Closed Caption) broadcasts.

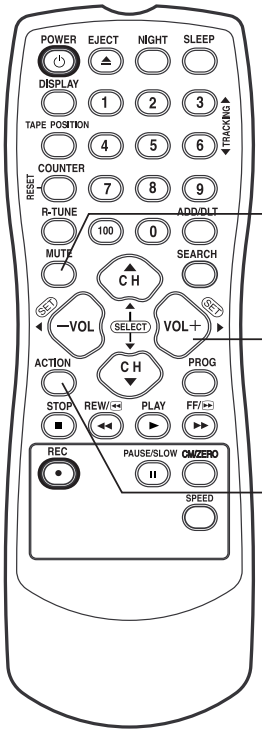
Caption Mode: TEXT C1 or C2
The lower half of the screen will be blocked out. When the TV station broadcasts information, such as program listings, it will appear in this space.

Caption Mode: OFF
Closed Caption / Text narration will not be displayed.

NOTES :
- The closed caption or text signal may be broadcast over C1, C2, or both. Also, text contents can vary so you may wish to try different settings.
- While recording one station and watching another, Captioning will not be displayed.

Recording and Playing Back a Closed Caption/Text Program

Record: Record normally.
Closed Caption/ Text signal, if present, is recorded automatically.
Playback: Start playback. Do above steps to select desired caption mode.

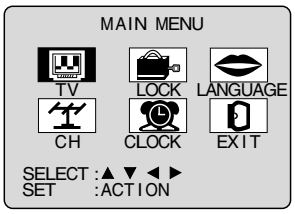


Caption On Mute Feature

Closed Caption narration, if available, is displayed when MUTE button is pressed.

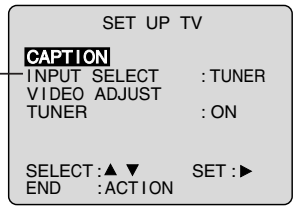
1 **Press ACTION** to display MAIN MENU.

2



1) **Press ▲▼◀▶** to select "TV."
2) **Press ACTION** to display SET UP TV screen.

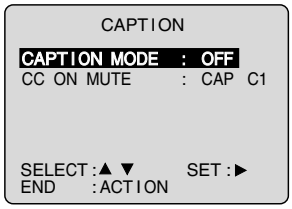
3



1) **Press ▲▼** to select "CAPTION."
2) **Press ▶** to display CAPTION screen.

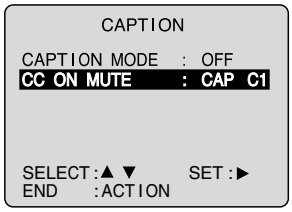
▶ **<Only when TUNER:ON>**

4



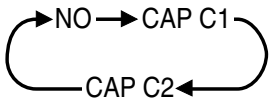
1) **Press ▲▼** to select CAPTION MODE.
2) **Press ▶** repeatedly to select "OFF."

5



1) **Press ▲▼** to select CC ON MUTE.
2) **Press ▶** repeatedly to select desired mode.

- Each press of ▶ will change the display as shown left.
- The caption may be broadcast over CAP C1 or C2.



6 **Press ACTION** three times to return to the normal screen.

7 **Press MUTE** to mute the sound and display closed captioning.

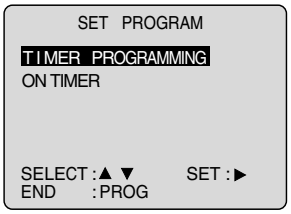
- To cancel, **press MUTE** again.

Timer Recording

You can set up to 8 programs to be recorded while you are away.

1 **Press PROG** to display SET PROGRAM screen.

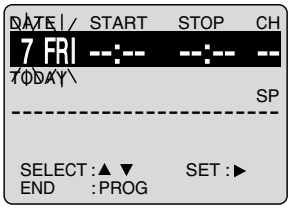
2



1) **Press ▲▼** to select TIMER PROGRAMMING.
2) **Press ▶** to display screen.

- If a program is already in memory, press ▲▼, and ▶ to select an unused program number.

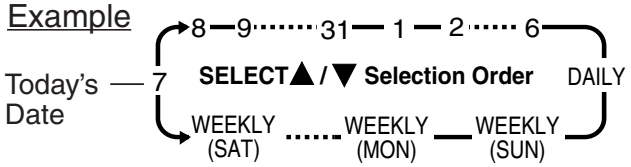
3



Press ▲▼ to select and ▶ or ◀ to set the recording DATE.

- 1~31 = One time
- DAILY = MON~FRI
- WEEKLY SUN~SAT = Same time once a week

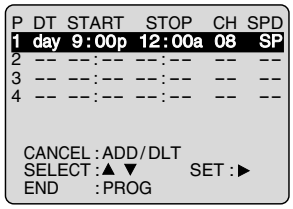
Example



Repeat step 3 to set:

- Start time, Stop time
- Channel (or LINE for outside source)
- Speed (SP, LP, SLP)

4



Press PROG to end the program.

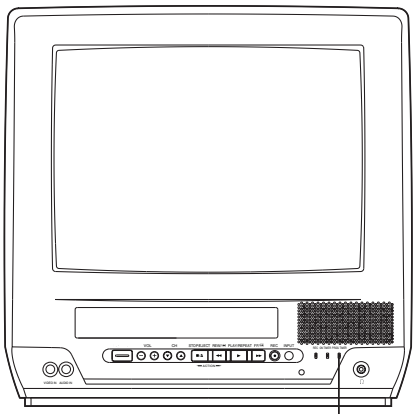
To Enter More Programs, press ▲▼ to select and ▶ to set a blank program number, and then repeat step 3.

5 **Press PROG** twice to exit this mode.

- If you're using a cable box, make sure that it is tuned to the desired channel and the power is left on for timer recording.
- Make sure TUNER:ON is selected for Channel Timer Recording.
- PROG TIMER indicator lights on the unit.

Check List

- ☐ Cable or antenna is connected.
- ☐ Power cord is plugged in.
- ☐ The clock is set to correct time.
- ☐ The tape is long enough.
- ☐ The record tab is in place.



PROG TIMER indicator

Cancel a Timer Recording: (Recording is in progress)

Hold down STOP for a few seconds to cancel the Timer Recording.

- Any future daily or weekly recordings will be performed as programmed.

Review, Replace or Clear Program Contents : (Recording is not in progress)

1 **Repeat steps 1 and 2 on page 22.**

2

```
P DT START   STOP   CH SPD
1 day  9:00p12:00a 08  SP
2  8  10:00a12:00p125  SP
3 10   8:00p 9:00p 10  SP
4 SU   9:00p10:00p  L  LP

 CANCEL:ADD/DLT
 SELECT:▲ ▼      SET:▶
 END    :PROG
```

Press ▲▼ to select the desired program.

3 **To Replace program...**

```
DATE / START    STOP    CH
 8 SAT 9:00P 12:00A  08
TODAY
                     SP
----------------------------

 SELECT:▲ ▼      SET:▶
 END    :PROG
```

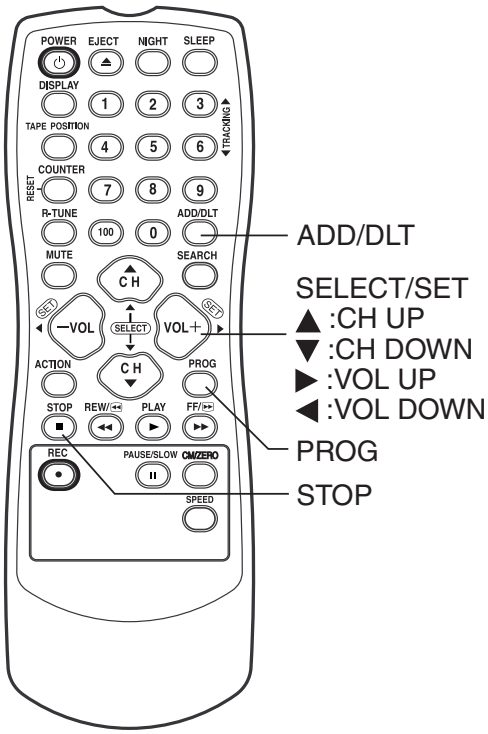
1) **Press ▶** to display.
2) **Press ▲▼** to select and **press ◀ or ▶**to set new program contents.
3) **Press PROG**.

To Clear program...

```
P DT START   STOP   CH SPD
1 -- --:-- --:--  --  --
2  8  10:00p12:00a125  SP
3 10   8:00p 9:00p 10  SP
4 SU   9:00p10:00p  L  LP

 CANCEL:ADD/DLT
 SELECT:▲ ▼      SET:▶
 END    :PROG
```

Press ADD/DLT.



4 **Press PROG** twice to exit this mode.

Notes

- 2 minutes before Timer recording is performed, “PLEASE PREPARE FOR TIMER REC” appears and/or the PROG TIMER Indicator flashes. Be sure a cassette with record tab is loaded and the unit is in Stop mode.
- If the start times of two programs overlap, the lower numbered program will have priority.
- If the start time for a Timer Recording comes up during a normal recording or One Touch Recording (page 12), the Timer Recording will not be performed.
- If there is a power interruption of more than one minute, the recording may not be performed or continued.
- If “INCOMPLETE” appears after all items have been set, check all entries and make necessary corrections.

Tape Operation

Search System is ...

Each time a recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings.

Index Search

Go directly to the desired recording.

1

INDEX SEARCH

ENTER INDEX NUMBER:1
USING 1-9 KEYS

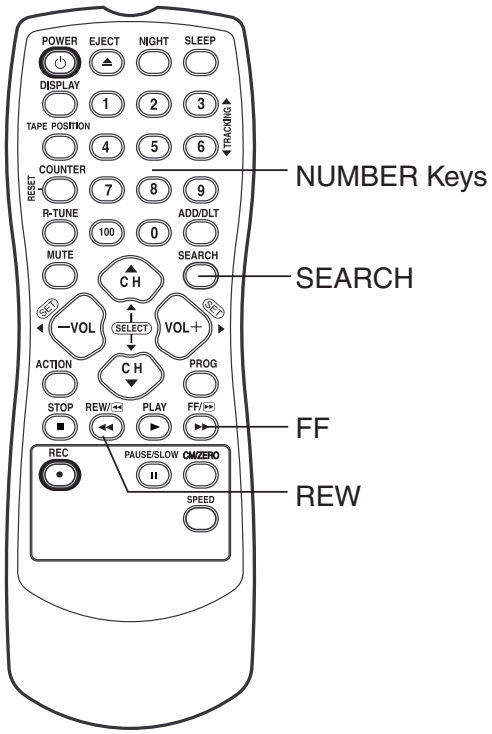
FORWARD SEARCH:FF
REVERSE SEARCH:REW

EXIT:SEARCH

Press SEARCH in Playback or Stop mode to display INDEX SEARCH screen, and then **press number keys** to select the recording number.

- To calculate number, see below.

Press FF or REW to start search.



2

INDEX SEARCH

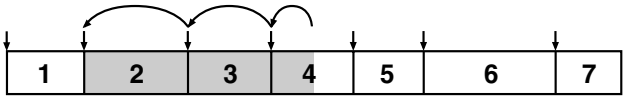
FORWARD SEARCH:FF
REVERSE SEARCH:REW

Play begins at search end.
To search forward or back 1 index, **press FF or REW** while screen left is displayed (10 sec.).

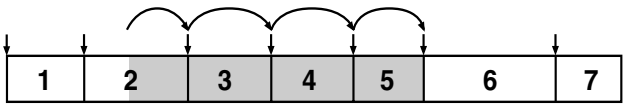
To cancel, press PLAY.

■ To calculate the Index Number

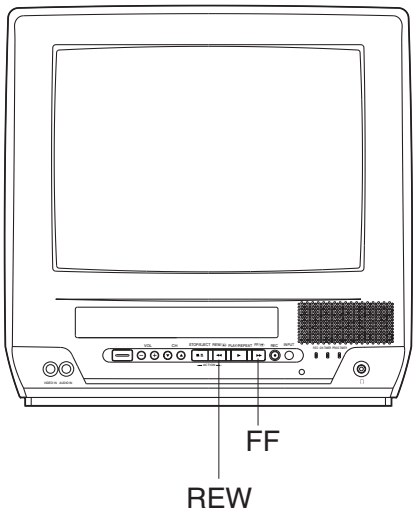
Example 1:
To go to rec. 2 from rec. 4, enter 3 and press REW.



Example 2:
To go to rec. 6 from rec. 2, enter 4 and press FF.



NOTE: ↓ indicates start points of each recording.



Note

- If Index Search is started very close to an index mark, that index mark may not be counted in the search.

Auto Operation Functions

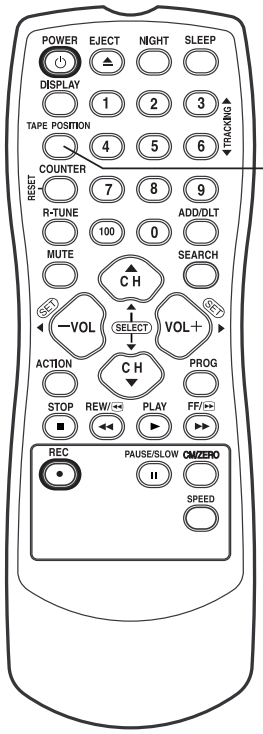
■ **Auto Shut Off**
No broadcast signal in TV (Only when Weak Signal Display is set to OFF), blank tape is Played for 5 minutes
→ Power turns off
- This feature is canceled if any button is pressed during above mode.

■ **Auto Playback**
Insert a tape in Power off mode
→ Power turns on
- Playback begins if tape has no record tab.

■ **Auto Rewind**
Tape reaches its end
→ Rewind → Stop

■ **Playback Auto Eject (Repeat Play is "OFF")**
Tape with no record tab reaches its end
Rewind → Stop → Eject

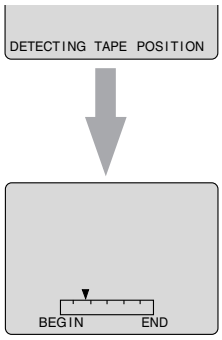
Tape Position Display



TAPE POSITION

To find out present tape position.
Tape position is displayed for VHS-C Cassettes type, tapes under 30 minutes, and some other tapes, but the position is not correct.

1 **Press TAPE POSITION** to detect current tape position.



- "DETECTING TAPE POSITION" only appears the first time a cassette is inserted and it takes several seconds for correct indication to appear.
- The present tape position indication is displayed.

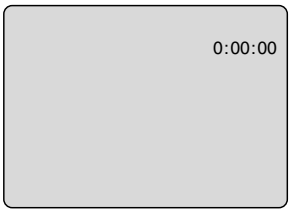
2 **Press TAPE POSITION** (or wait 5 seconds) to return to the normal screen.

Tape Operation (continued)

Zero Search

To quickly return to a specific tape counter location.

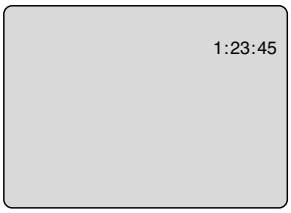
1 **Press COUNTER RESET** during playback to display the Counter.

2 

Press COUNTER RESET at the desired position to reset to “0:00:00.”

3 **Continue playback, rewind, or fast forward.**

4 **Press STOP.**

5 

Press CM/ZERO in stop mode to start ZERO SEARCH.

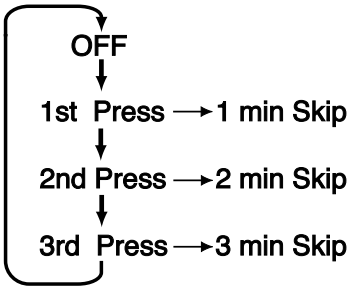
- Unit goes into FF or REW mode and stops at the last point the Counter was set to 0:00:00.

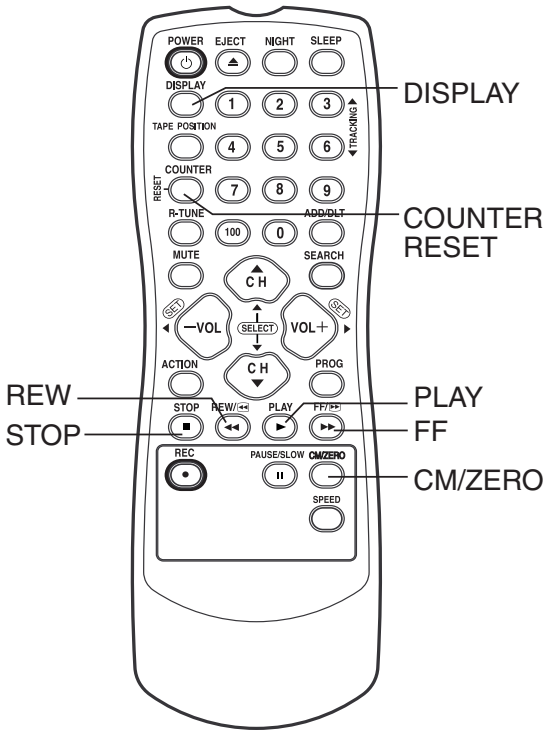
Commercial Skip

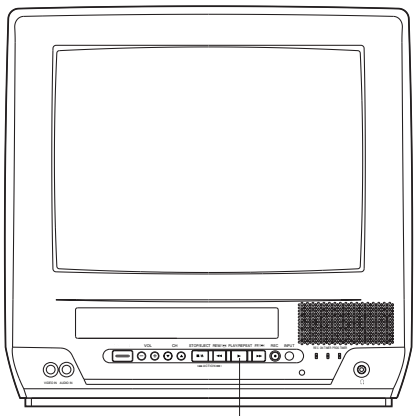
By pressing the CM/ZERO button in Playback mode you can skip over 1 to 3 minutes of recorded tape in just a few seconds.

Press CM/ZERO repeatedly to select skip time in Play mode.

- No indication appears.



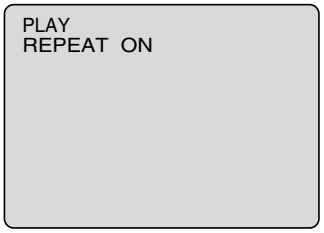




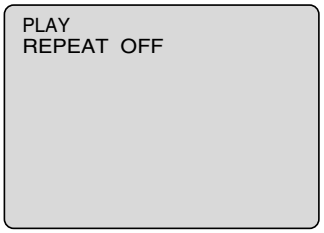
PLAY/REPEAT

Repeat Play

Set to see a recording over and over.



In PLAY mode, **press PLAY/REPEAT** on the unit to turn “ON.”



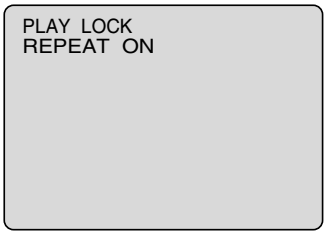
Repeat above to turn “OFF.”

Note

- Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.

Play Lock mode

The unit may be locked in Repeat Play mode so that all other function keys are inoperative.



To turn “ON,” hold down PLAY on the remote or unit for 7 seconds. **To turn “OFF.”** Repeat above operation in Play Lock mode.

When the Play Lock mode is selected,
- Auto Repeat function is activated automatically.
- On Timer and Sleep Timer become nonfunctional.

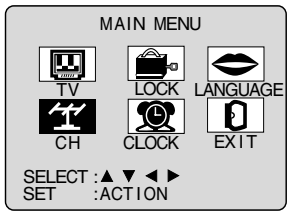
Special VCR Features

Weak Signal Display ON/OFF (TUNER:ON only)

When “ON” is selected, the picture is displayed even when a broadcast signal is weak or non-existent.

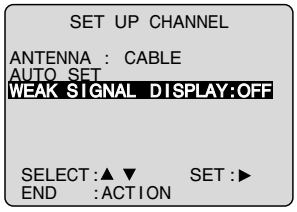
1 **Press ACTION** to display MAIN MENU.

2

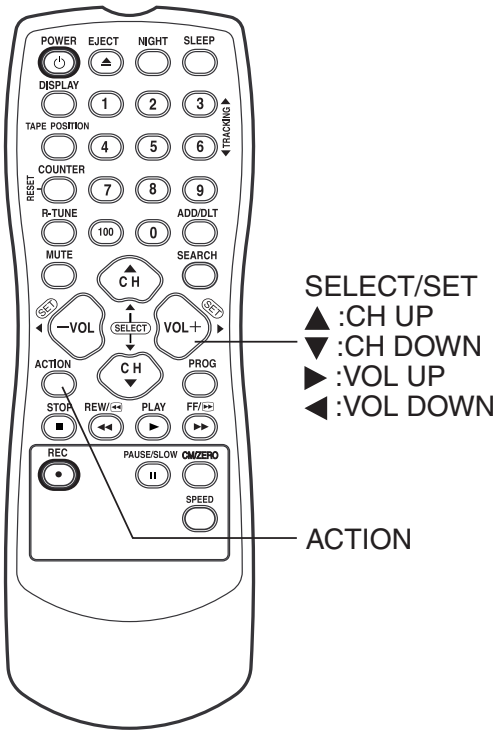


1) **Press ▲▼◄►** to select “CH.”
2) **Press ACTION** to display SET UP CHANNEL screen.

3



1) **Press ▲▼** to select WEAK SIGNAL DISPLAY .
2) **Press ►** to set “ON” or “OFF.”



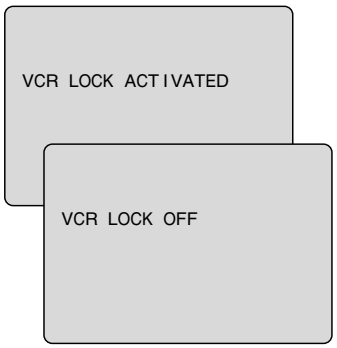
Notes

- “ON” = Picture is displayed regardless of signal condition, and may not always be clearly visible.
  “OFF” = Screen turns solid blue when signal is absent or weak.
- If unit is connected to equipment which has blue back feature, selecting “ON” will have no effect on the other equipment.

4 **Press ACTION** twice to return to the normal screen.

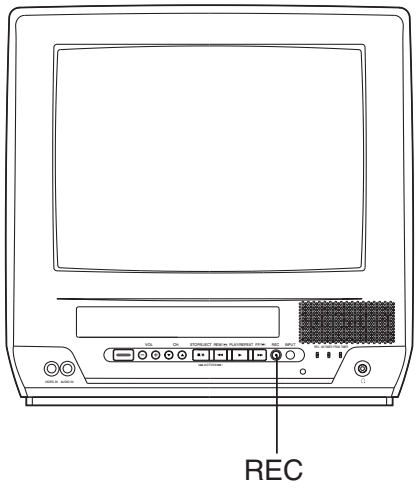
VCR Lock

All operations are prohibited except Timer recording and tape eject. Useful for families with small children.



In stop mode, **hold down REC** on the unit without a cassette inserted for 7 seconds to turn “ON.” Please ignore NO CASSETTE warning.

Repeat above with or without cassette to turn “OFF.”



- VCR Lock is canceled automatically after about 24 hours if clock is set.

V-Chip Control Feature

Process of V-Chip Control Feature

Enter Code → **Setup** → **Blocking**

V-Chip Control Feature is...

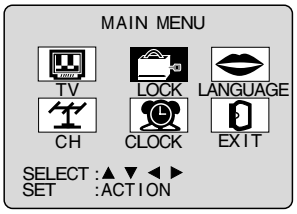
This unit has a built-in V-Chip Control which allows you to block unwanted TV usage based on US MOVIES and US TV PROGRAMS Ratings.

Enter Secret Code

A 4-digit code must be entered to view a blocked program or change rating settings.

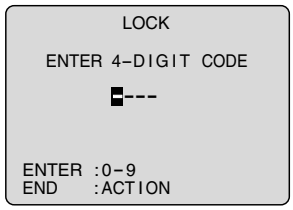
1 **Press ACTION** to display MAIN MENU.

2



1) **Press ▲▼◀▶** to select "LOCK."
2) **Press ACTION** to display screen.

3



1) **Press NUMBER keys** to enter your secret code.
2) **Enter same code** again for confirmation.

- Step 2) not necessary when changing rating or secret code.
- Take care that you are not observed entering the secret code.

To Make Corrections

Press ◀ repeatedly to move the cursor. Press number keys to make the correction.

4

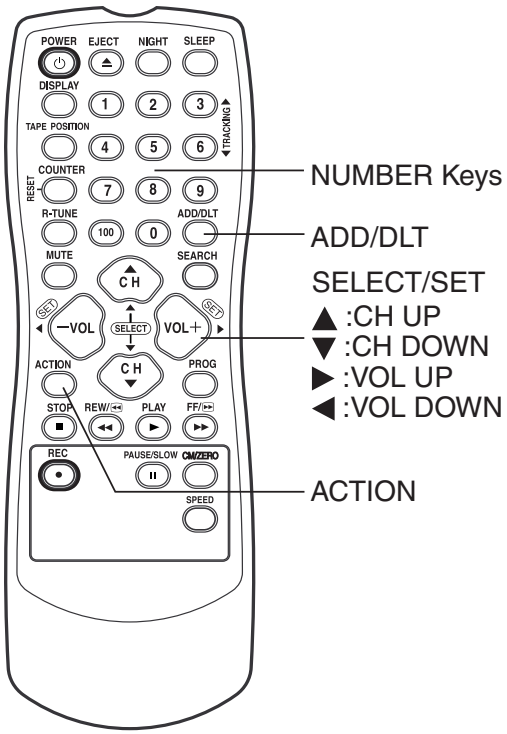
Press ▶ to display US Ratings menu (see page 30).
Or
Press ACTION twice to exit.

Changing your secret code

- You will need your current code. Do steps **1** ~ **3**. In step **4**, press ADD/DLT to clear current code. Repeat steps **3 and 4** to enter new code.

Notes

- DO NOT forget your secret code.
- Once ratings are set, restricted tapes or programs cannot be accessed unless the secret code is entered.



Advanced Operation

V-Chip Control Feature (continued)

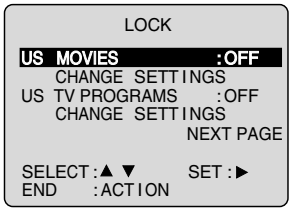
If LOCK menu is not displayed, do "Enter Secret Code" steps on page 29.

Process of V-Chip Control Feature

Enter Code → Setup → Blocking

Setup US MOVIES Ratings

1



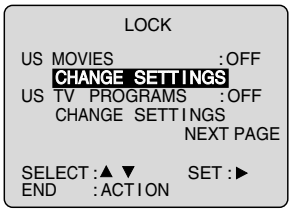
1) **Press ▲▼** to select US MOVIES.
2) **Press ▶** to set "ON" or "OFF."

■ **"ON" →V-Chip Control is activated.**
■ **"OFF" →V-Chip Control is deactivated.**

Note

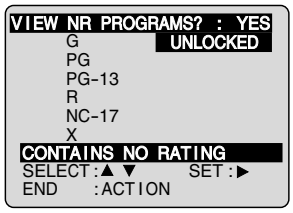
- "NEXT PAGE" displays CANADIAN V-Chip setting menu. Not necessary except when viewing Canadian tapes or broadcasts.

2



1) **Press ▲▼** to select CHANGE SETTINGS.
2) **Press ▶** to display screen.

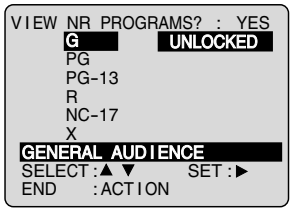
3



1) **Press ▲▼** to select VIEW NR PROGRAMS?.
2) **Press ▶** to set "YES" or "NO."

NR (Not Rated) PROGRAMS
Some movies, such as old movies or foreign movies usually have no ratings.

4

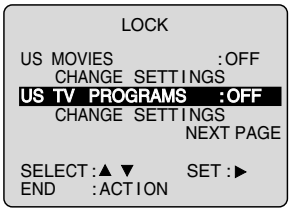


Press ▲▼ to select and **▶**to set ratings to be blocked. (See ratings chart next page.)

5 **Press ACTION** to redisplay LOCK menu and continue with US TV PROGRAMS Ratings Setup (this page). Or, **press ACTION** three times to exit.

Setup US TV PROGRAMS Ratings

1



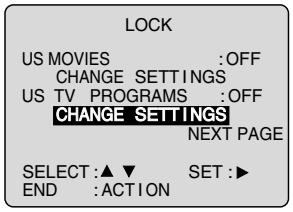
1) **Press ▲▼** to select US TV PROGRAMS.
2) **Press ▶** to set "ON" or "OFF."

■ **"ON" →V-Chip Control is activated.**
■ **"OFF" →V-Chip Control is deactivated.**

Note

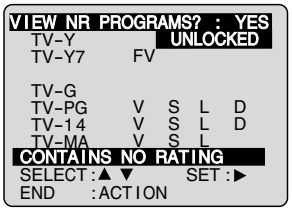
- "NEXT PAGE" displays CANADIAN V-Chip setting menu. Not necessary except when viewing Canadian tapes or broadcasts.

2



1) **Press ▲▼** to select CHANGE SETTINGS.
2) **Press ▶** to display screen.

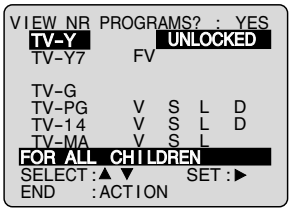
3



1) **Press ▲▼** to select VIEW NR PROGRAMS?.
2) **Press ▶** to set "YES" or "NO."

NR (Not Rated) PROGRAMS
Some TV shows, such as news, sports, weather, bulletins, emergency information usually have no ratings.

4



Press ▲▼ to select and **▶**to set ratings to be blocked.
(See ratings charts next page.)

- Ratings highlighted in Green will be blocked. Ratings in white letters will not be blocked.

Note

- You may select from standard TV ratings (chart 1), or customize to a specific content rating (chart 2).

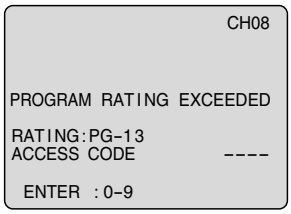
5 **Press ACTION** three times to exit this mode.

Process of V-Chip Control Feature

Enter Code → Setup → Blocking

Blocking Message

<When V-Chip Control is activated>



- If a program or movie exceeds the ratings you have set, a message will appear on a black background and sound is muted.

To View a Blocked Program / Movie

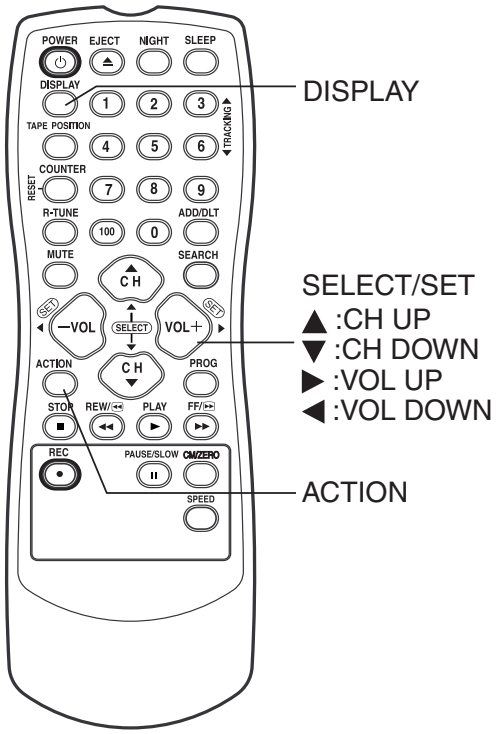
[Temporarily Deactivate V-Chip Control]

Enter your secret code (ACCESS CODE) in the Blocking Message screen.

- V-Chip Control is reactivated when power is turned off or power failure occurs.

[Deactivate V-Chip Control]

Enter your secret code (steps 1-4 page 29). Then, set US MOVIES and/or US TV PROGRAMS to "OFF" using ▲▼ and ▶ keys. (Ratings set on page 30 is retained and will be in effect when V-Chip Control is activated again.)



US MOVIES RATINGS

G	**GENERAL AUDIENCE:** All ages admitted.
PG	**PARENTAL GUIDANCE:** Some material may not be suitable for children.
PG-13	**PARENTS CAUTIONED:** Some material may be inappropriate for children under 13.
R	**RESTRICTED:** Children under 17 must be accompanied by a parent or adult.
NC-17	**OVER AGE 17 ONLY:** No one 17 and under admitted.
X	**ADULTS ONLY:**

US TV PROGRAMS RATINGS: Chart 1

TV-Y	**FOR ALL CHILDREN:** Content specifically geared to young viewers ages 2-6.
TV-Y7	**FOR AGE 7 AND OLDER:** May contain mild physical or comedic violence which may frighten children under 7.
TV-G	**GENERAL AUDIENCE:** Contains little or no violence, strong language, or sexual dialogue or situations.
TV-PG	**PARENTAL GUIDANCE:** May contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	**PARENTS CAUTIONED:** May contain sophisticated themes, sexual situations, strong language, and more intense violence.
TV-MA	**MATURE AUDIENCE:** May contain mature themes, profane language, graphic violence, and sexual situations.

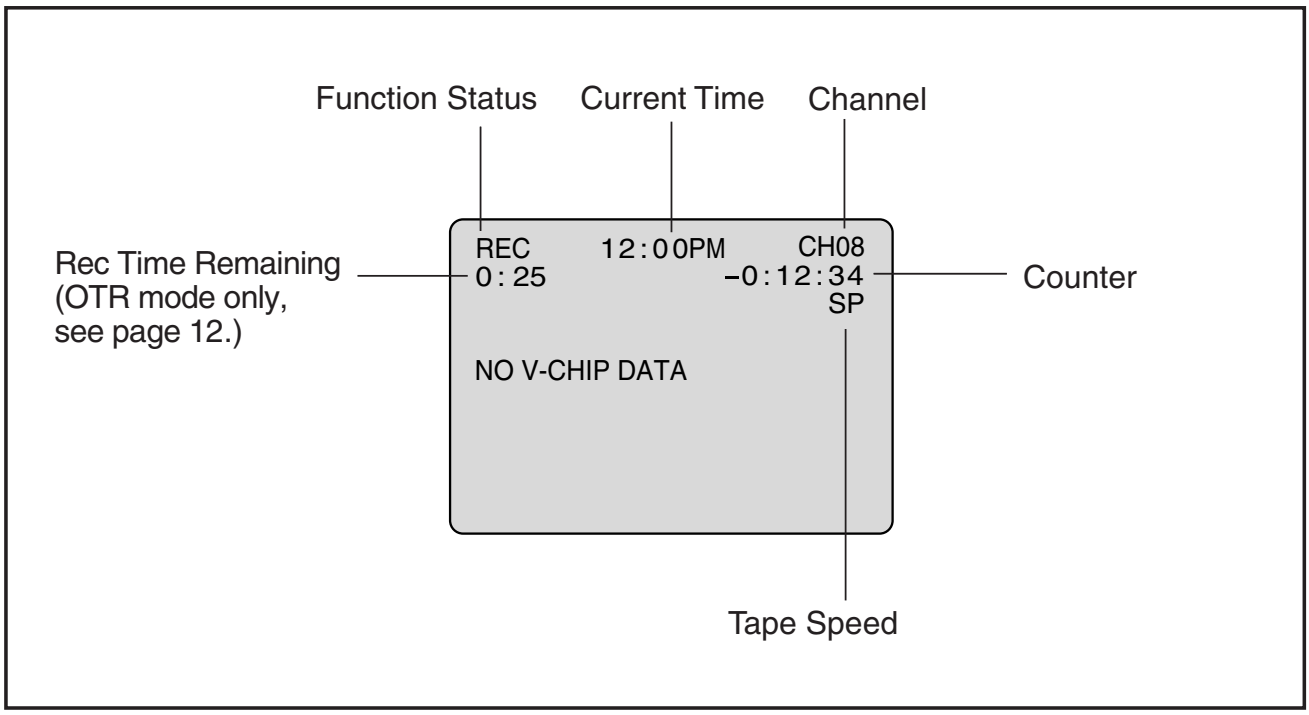
US TV PROGRAMS RATINGS: Chart 2

FV	Fantasy Violence
V	Violence
S	Sexual Situations
L	Adult Language
D	Sexually Suggestive Dialogue

On-Screen Display (OSD)

VCR Status & Clock Display

Press DISPLAY to display or remove the overlay.

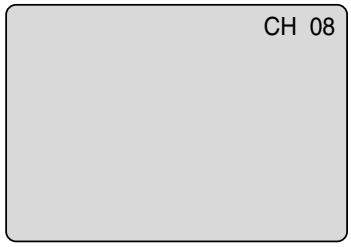


Blue Screen Display

Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display set to “OFF” (see page 28), the screen will turn solid blue.

Channel & Function Display

When a function button is pressed (PLAY, FF, etc.) or you change channels, the unit mode or channel number will be displayed.



Warning and Instruction Displays

These displays will alert you to a missed operation or provide further instructions.

OSD	CAUTION	Page
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording, or set the On-Timer and the Clock is not set...	**8 - 11**
CHECK CASSETTE RECORD TAB	If you press REC, and a cassette is inserted with no record tab...	**3, 12**
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP during a Timer Recording...	**23**
NO CASSETTE	If you press PLAY, FF, REW, or REC without a cassette inserted...	**12**
PLEASE PREPARE FOR TIMER REC	If the unit is not in Stop mode or a cassette with record tab is not inserted two minutes before a Timer Recording is about to begin...	**22 - 23**
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END: PLAY	If head cleaning becomes necessary while playing back a tape...	**4**
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the unit is in VCR Lock mode...	**28**

Before Requesting Service

Check the following points once again if you are having trouble with your unit.

Power	CORRECTION
No power…	• Completely insert Power Plug into an AC outlet. • Set POWER button to ON.
Monitor	**CORRECTION**
No picture or sound...	• Make sure your antenna system (TV or CABLE), is correctly set. (P.8) • Completely insert Power Plug into an AC outlet. • Set POWER button to ON.
Poor picture with normal sound...	• Adjust BRIGHTNESS, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P.15)
Poor sound with normal picture...	• Adjust VOLUME control. (P.14)
Poor TV reception...	• Adjust SHARPNESS and PICTURE controls in the SET UP TV menu. (P.15)
No color or poor color...	• Adjust TINT and COLOR controls in the SET UP TV menu. (P.15)
Ghost (multiple) images...	• Install a directional antenna.
TV programs cannot be watched...	• Make sure the selected channel is in unit's memory. (P.11-12)
Channel cannot be selected...	• Only the channel being recorded can be viewed on this unit.
VCR	**CORRECTION**
TV program cannot be recorded...	• Make sure your antenna system (TV or CABLE), is correctly set. (P.8) • Make sure cassette record tab is intact. (P.3)
Timer recording cannot be performed…	• Check that clock is set to current time and date. • Make sure DSS/CABLE box (if used) is left on and tuned to channel to be recorded. • Set recording Start/Stop times correctly. (P.22-23) • Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during a Timer Recording, even after power is restored.
No playback picture, or the playback picture is noisy or contains streaks...	• Adjust TRACKING control in either direction. (P.4) • Try Head Cleaning. (P.4)
VCR cannot be controlled...	• Make sure VCR LOCK is set to off. (P.28) • Make sure unit is not in a Timer Record operation.
Remote Control	**CORRECTION**
Unit cannot be controlled...	• Aim remote at remote sensor on unit so that signal is unobstructed. (P.7) • Inspect the remote batteries. (P.3) • Make sure VCR LOCK is set to off. (P.28) • Exposing unit remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION and PROG buttons cannot be selected...	• Check remote batteries.
Miscellaneous	**CORRECTION**
Video cassette cannot be inserted...	• Insert the cassette window side up; record tab facing you.
Video cassette cannot be removed...	• Completely insert Power Plug into an AC outlet.
Tape cannot be ejected or inserted...	• Try ejecting or inserting the tape again after turning POWER off, then back on.
Video cassette ejects when a recording is started, or the power is turned off for timer recording...	• Make sure cassette record tab is intact. (P.3)
In Stop mode, the VCR motor (CYLINDER) continues to rotate...	• To enable Quick Play mechanism, the VCR cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.
VCR cannot be controlled...	• Make sure VCR LOCK is set to off. (P.28)

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